PROJECT DESCRIPTION

GENERAL:

THIS PROJECT INVOLVES THE MODIFICATION OF AN HIB TO A FULL COLOR ON DEMAND TRAFFIC SIGNAL AT MD 213 AND US 301 SOUTHBOUND IN QUEEN ANNES COUNTY.

MD 213 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION:

THE INTERSECTION OPERATES IN A NEMA FOUR PHASE. FULL-ACTUATED MODE. MD 213 THROUGH MOVEMENTS OPERATE CONCURRENTLY, WITH AN EXCLUSIVE/PERMISSIVE LEFT TURN FOR MD 213 NORTHBOUND APPROACH. THE RAMP FROM US 301 SOUTHBOUND WILL OPERATE ALONE. SEE NOTE UNDER PHASE CHART FOR NORMAL OPERATION.

CONTROLLER INFORMATION:

A NEMA EIGHT-PHASE, FULL-ACTUATED CONTROLLER WITH ALL NECESSARY EQUIPMENT HOUSED IN A POLE-MOUNTED CABINET SHALL BE INSTALLED AT THE INTERSECTION.

## PROJECT CONTACTS

CONTACT PERSONS FOR DISTRICT 2 ARE AS FOLLOWS:

MR. ROBERT KIEL ASSISTANT DISTRICT ENGINEER - TRAFFIC

MR. TERRY O. WRIGHT ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (410) 810-3250

PHONE: (410) 810-3240

MR. BARRY CLOTHIER ASSISTANT DISTRICT ENGINEER - UTILITIES 410-810-3275

CONTACT FOR OFFICE OF TRAFFIC AND SAFETY:

MR. RICHARD L. DAFF. SR. CHIEF. TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF -TRAFFIC OPERATIONS DIVISION (410) 787-7630

MR. ED RODENHIZER TEAM LEADER - SIGNAL OPERATIONS (410) 787-7650

MR. EUGENE BAILEY TEAM LEADER - SIGN OPERATIONS (410) 787-7676

## EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

QUANTITY

DESCRIPTION

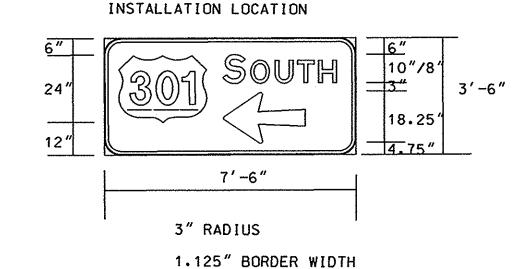
1 EA

NEMA EIGHT PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER, VIDEO DETECTION UNIT, TWO 4-CHANNEL AMPLIFIERS AND ALL NECESSARY EQUIPMENT HOUSED IN A POLE MOUNTED

CABINET.

26.25 SF SHEET ALUMINUM 1 EA SHEET ALUMINUM SIGN 7'-6"x3'-6" GREEN BACKGROUND M1-4 30" x 24". 10".8" "SOUTH" A-2 ARROW @ 180°

> SIGNING DETAIL FOR SIGN 8 SEE CONSTRUCTION DETAIL "C" ON THE SIGNAL PLAN FOR



EQUIPMENT LIST "B"

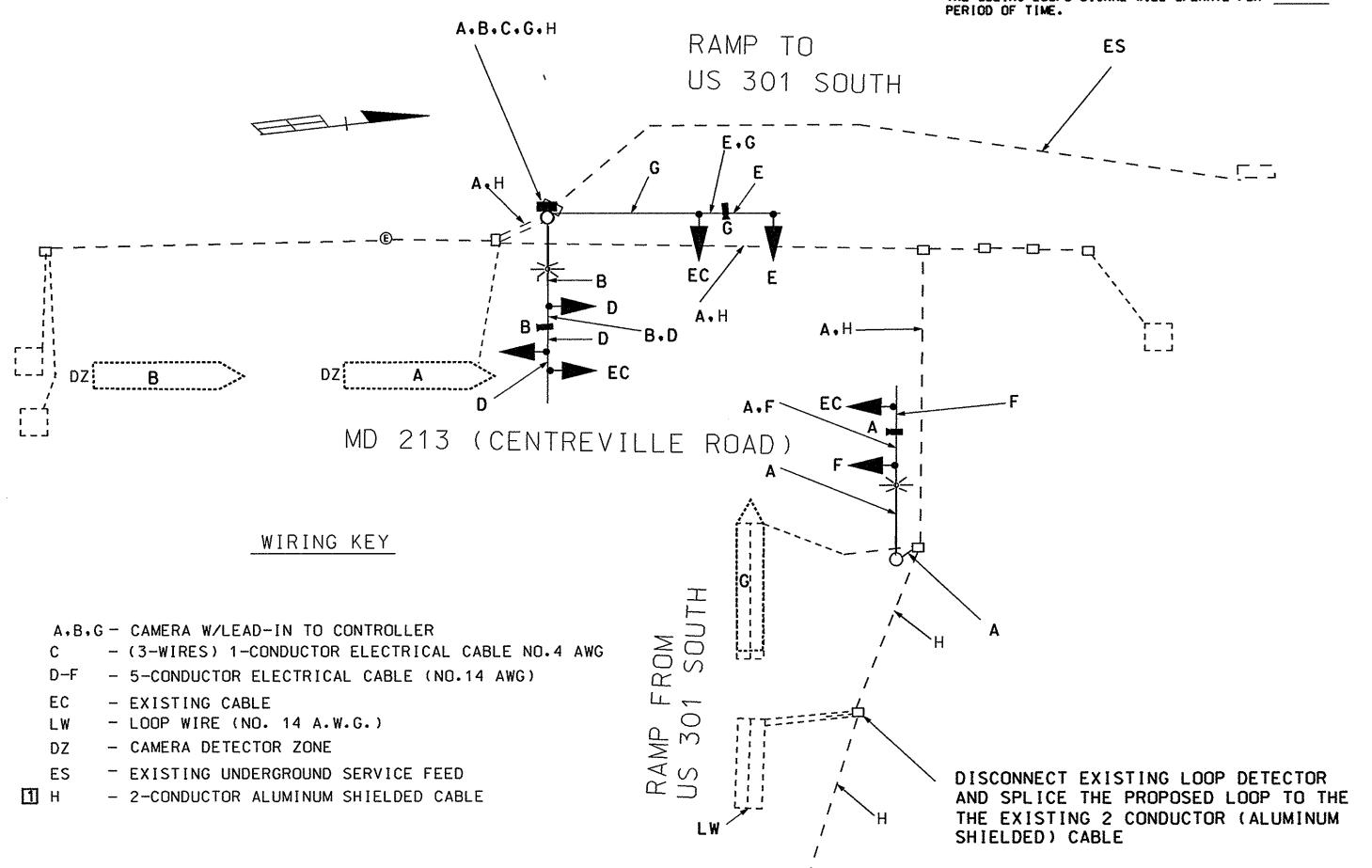
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

	ITEM N	O. QUANTITY	DESCRIPTION
	1001	2 <del>1</del> EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
	8001	22 EA	FURNISH AND INSTALL 12 INCH LED SIGNAL HEAD SECTION
	8004	3. EA	FURNISH AND INSTALL 8 INCH LED SIGNAL HEAD SECTION
	8022	1 EA	REMOVE AND DISPOSE OF MATERIALS AND EQUIPMENT PER ASSIGNMENT
	8026	3 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA & CABLE
1	8027	14 7 LF	FURNISH AND INSTALL 1 INCH DETECTOR SLEEVE GALVANIZED
1	8034	120 EA	SCHEDULE 80 PVC CONDUIT UP TO 4 INCH - TRENCHED
	8038	26.25 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN
	8052	400 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR ALUMINUM SHIELDED
	8055	75 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
1	8058	870 <del>420</del> LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING
1	8059	172 <del>-92</del> LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
	8063	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNTED

Phase 1 + 6 1 Change Phase 2 + 6 2 + 6 Change Phase 4 4 Change Flashing Operation

> WIRING DIAGRAM THIS SIGNAL WILL OPERATE AS AN ON DEMAND SIGNAL.
> NORMAL OPERATION IS FLASHING ONCE TRAFFIC CALLS
> THE QUEING LOOPS SIGNAL WILL OPERATE FOR
> PERIOD OF TIME.

PHASING CHART



EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR.

QUANTITY

DESCRIPTION

1 EA

CONTROLLER AND CABINET - POLE MOUNTED

TI REDLINE 1 6/4/2007 TEDD APPROVAL Jan 6/4/07

ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

TS NO. 3438C1

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 213 INTERCHANGE AND US 301 NORTH RAMP, US 301 SOUTHBOUND RAMP

SIGNALIZATION PLAN SHEET

SCALE N/A DATE 6-01-2006 CONTRACT NO. AT9095185 DESIGNED BY DLA COUNTY OUEEN ANNES DRAWN BY DLA LOGMILE 17021305.32 TIMS NO. H552X CHECKED BY CENTURY ENGINEERING, INC. FAP NO. N/A TOD NO. 3438C

SHEET NO. 2 OF 2

DRAWING SG-- OF

PLOTTED: \$DATETIME\$ FILE: \$FILE\$

CONSULTING ENGINEERS - PLANNERS 32 WEST ROAD TOWSON, MARYLAND 21204

1 LW/